PIPENET

PIPENET VISION

NETWORK INSTALLATION GUIDE

FLEX*lm* LICENSING

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1 SYSTEM REQUIREMENTS

The following are the minimum system requirements for running a PIPENET module:

- Windows NT, 2000 or XP
- 20 MB Hard Disk Space for each module
- 128MB free RAM
- Windows Compatible mouse
- Display screen with a resolution of at least 1024 x 768, preferably higher.
- Adobe Acrobat version 5.0 or later for viewing manuals from CD-ROM.

2 BEFORE YOU START

CDs and license file

Before you commence installation make sure that you have the following:

1. installation CD
2. the additional Network CD
3. an Aladdin HASP security key – this is needed for PIPENET Vision releases 1.10 and later, earlier releases of PIPENET Vision and the earlier PIPENET Classic products did not need a security key.
4. FLEX*lm* license file.

The FLEX*lm* license file is not required during installation but will be required to check that the installation has completed successfully, and that the desired module(s) can be run.

If a security key is required this will have been supplied with the release. For customers who have used earlier releases of PIPENET, it may be possible to use an existing key.

It is important to note that the FLEX*lm* licence file will only work with a single specified security key.

If you have not already obtained a license file then you must first determine the host name and host id of the computer that will run the FLEX*lm* license server (see subsection 2.2.).

Firewalls

If your site has an Internet firewall you should specify the TCP/IP port number to be used by the program sunrise.exe. This is the FLEX*lm* vendor daemon installed on the license server computer and used to communicate with each PIPENET application. The port number can be any unused port number in the range 1025 - 48000

2.1 What Is On The CD

The second CD contains includes the following:

- FLEX*lm* program LMTOOLS – used for setting up the FLEX*lm* server
- FLEX*lm* supplied program lmgrd.exe
- Sunrise program NetUtil – used for setting the licensing source on each workstation
- the program sunrise.exe which is installed on the server and is referred to by FLEX*lm* as the vendor daemon.
- FLEX*lm* supplied end user guide.
- Security key drivers for the Aladdin HASP security key.

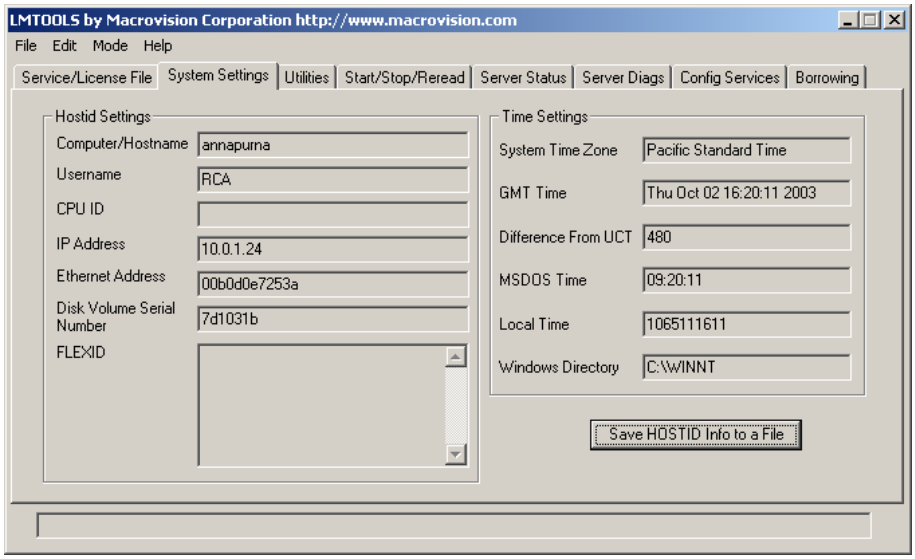
2.2 Determining Your Host Name And Host ID

The license file is provided by Sunrise Systems Limited. This small file contains information about your PIPENET licenses, including such things as module(s) licensed, expiry dates, and number of concurrent users.

The license file is generated by Sunrise Systems based on information provided by you, specifically the host name and host id of the computer that will run the FLEX*lm* server program.

To determine the host name and host id run the FLEX*lm* license utility program LMTOOLS provided on the second CD (existing users of FLEX*lm* will already be running this program).

Running this program and selecting the **Systems Settings** tab will result in the display:



Simply select the **Save HOSTID Info to a File** button in the bottom right-hand corner to save the required information to a text file and then email this file to Sunrise Systems Limited at licencing@sunrise-sys.com You will receive a response to your email with the generated license file as an attachment.

The information used is the host name and the host id (the Ethernet address).

2.3 Installing The FLEX*lm* License File

The license file provided must be copied to a location accessible to the FLEX*lm* license server and all workstations that may want to run a PIPENET module. This can be achieved either by placing the file in a shared location accessible to the server and all workstations, or by placing a copy of the file on the server and each workstation. The location will normally be under the control of the Systems Administrator.

2.4 Administrator Access Rights

It is important that installation of PIPENET modules be performed with Administrator access rights, which are required for the following purposes:

- Installation of the drivers for the security key, this requires access to the System Registry. Note these drivers are not required by FLEX*lm*, however, some users of FLEX*lm* also have local security keys. If a local security key is fitted to a workstation then this key will be used as a licensing source instead of FLEX*lm*.

- Updates to the system files in the Windows' System directory. This will only be required if the existing versions are not the latest versions required by the Microsoft support libraries.

If you do not have these rights you will have to contact your IT department to set up your account details. It is recommended that you contact your IT department anyway to confirm any other rights and restrictions there may be.

Check that you have read and write access rights to the drive where the software will be installed (by default C:) and where the temporary files will reside (also by default drive C:). This is necessary since some organisations prohibit their users from accessing the local disk and selected network drives, other than for read. Again if you do not have these rights then you will have to contact your IT department.

3 INSTALLING AND RUNNING THE FLEX*lm* SERVER

FLEX*lm* is a widely used program so it quite possible that you are already familiar with the product and its use. This section is primarily intended for first-time users of FLEX*lm*.

FLEX*lm* licenses are managed by a FLEX*lm* license Server. A license Server can manage the licenses for a single product or multiple products, the products being from the same or different suppliers.

Please note that if you have been issued with a stand alone licence file, i.e. the licence is valid for your computer only, a FLEX*lm* license Server is not required so you can ignore this section entirely.

3.1 Copying Essential Files From CD

The following files should be copied to the license server:

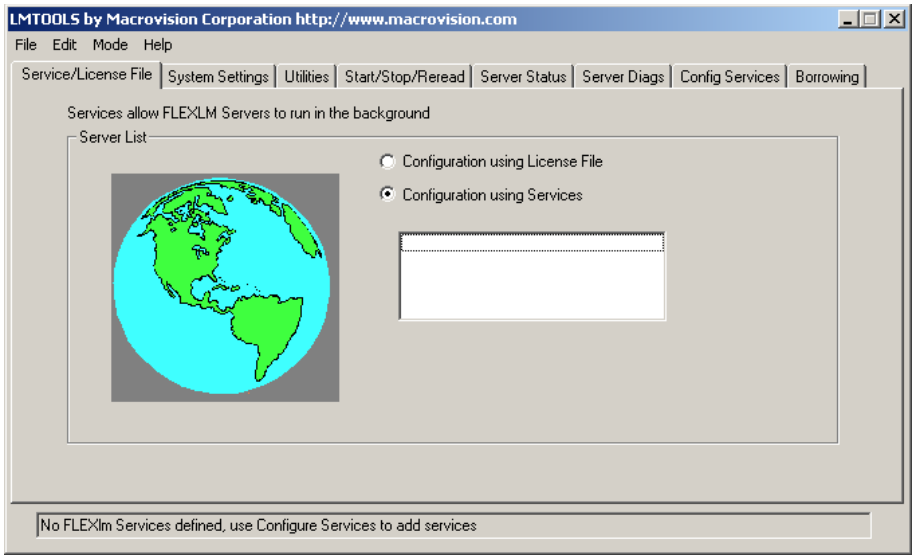
- lmtools.exe – FLEX*lm* utility program,
- lmgrd.exe – FLEX*lm* license manager
- sunrise.exe – vendor daemon
- enduser.pdf - end user guide may also be copied

3.2 First-time Users Of FLEX*lm*

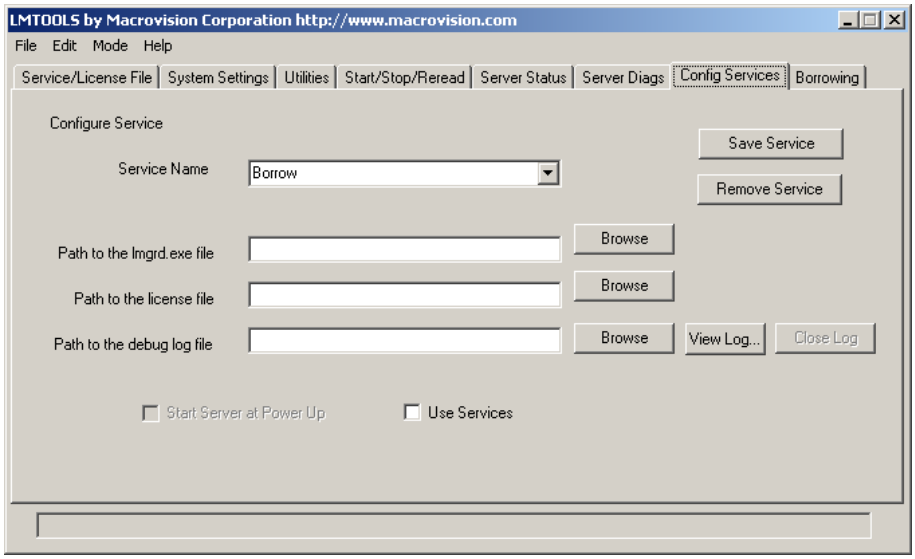
For first-time users it is assumed there will only be one service and this will license all PIPENET modules. Existing users of FLEX*lm* should go to section 3.3.

Setting up the server

To set up the license Server run the FLEX*lm* utility LMTOOLS and select the **Service/license File tab**:



Make sure that the **Configuration using Services** option is selected and then select the **Config Service** tab:



Enter a suitable service name, for example “PIPENET FLEX*lm* Server”. You must now locate and enter the names of three files, this is easily done using the Browse button shown to the right of each field:

Path to lmgrd.exe file and Sunrise vendor daemon sunrise.exe

These file are provided on the second CD and should be copied to your hard drive

Path to the license file

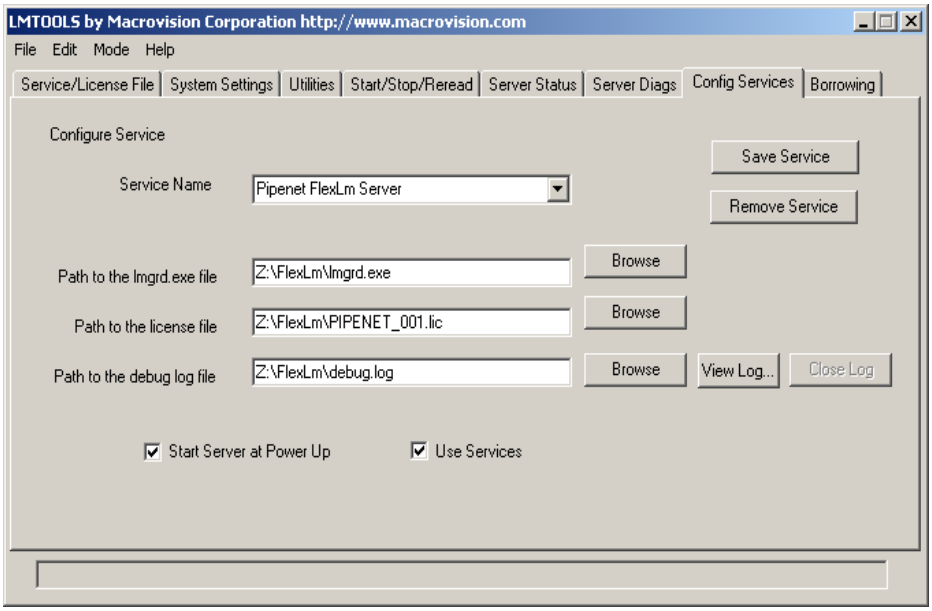
This is the directory containing the Sunrise Systems provided license file (and possibly other license files) or the specific license file. Either enter the directory path if it is known or use the browse button to select the specific file.

Path to debug log file

The debug log file is a text file containing status and error information useful for locating problems with the license server. It is only necessary to create an empty text file, using Windows Notepad for example, and save the file in a suitable location on the license server. The license server will then use this file to log any errors. The contents of the file can be viewed by selecting the **View Log** button.

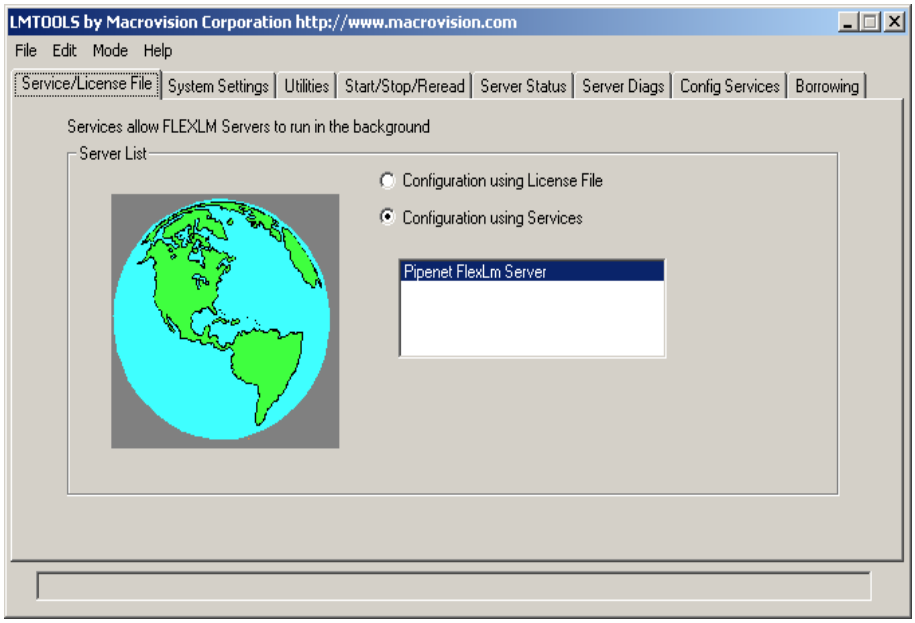
Note for IT Managers

The Sunrise vendor daemon (sunrise.exe) is assumed to reside in the same directory as the lmgrd.exe file. It can reside in another directory but this requires the editing of the license file(s).



Select the **Use Services** option. If you want the license server to start automatically each time you restart the computer select the **Start server at Power Up** option.

Select the **Save Service** button to save the service.



Clicking on the **Service/license File** tab again will display the new service you have created:

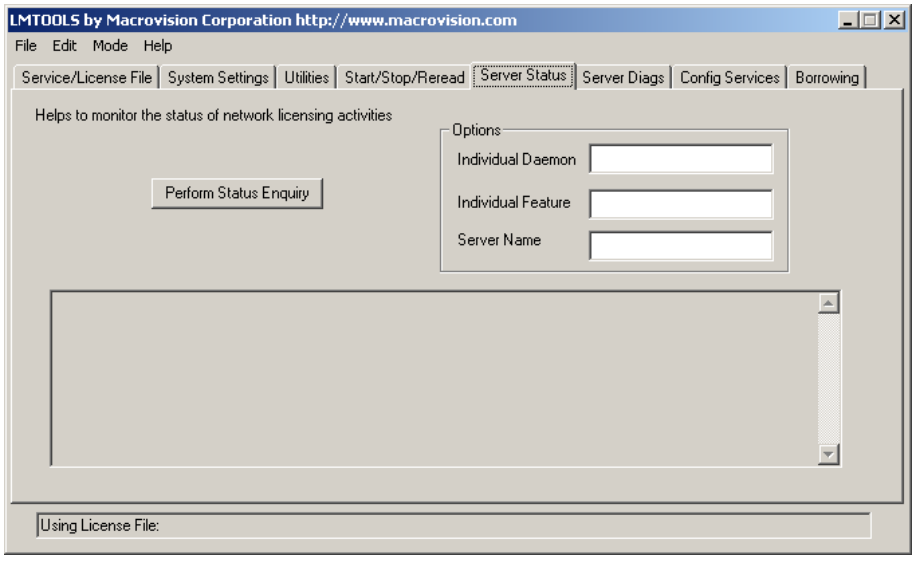
Starting and stopping the Server

To manually start the server select the **Start/Stop/Reread** tab. Make sure that the highlighted service name is the one you have just created and press the Start Server button. If all has gone well you should see a confirmation message in the status box at the bottom of the window - “Server Start Successful”.

If the server is running it can be stopped by selecting the **Stop Service** button.

Verifying correct installation

To verify that the license server and license file have both been installed correctly select the **Server Status** tab:



Select the **Perform Status Enquiry** button – observe the results in the lower part of the dialog.

3.3 Multiple FLEX*lm* License Servers

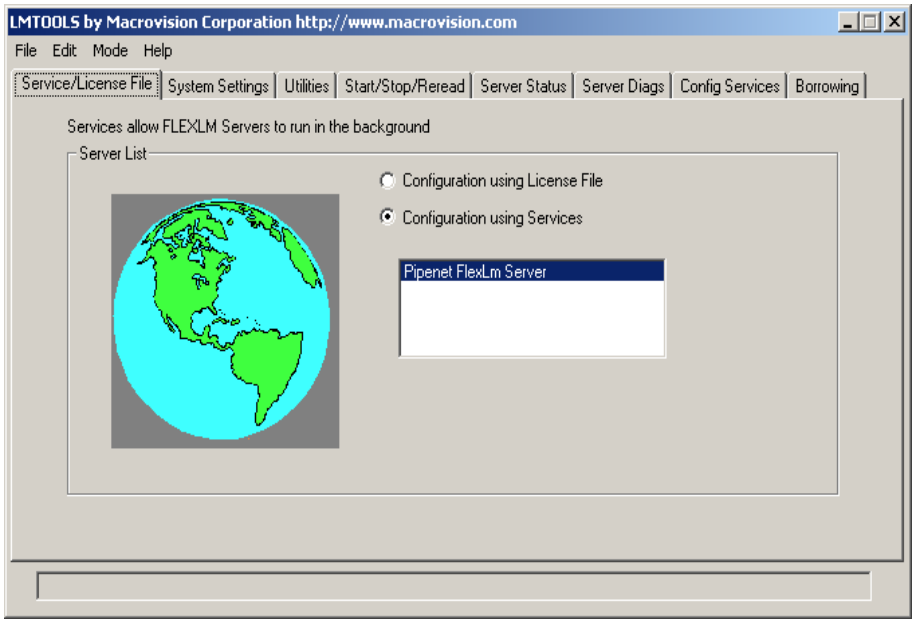
There are three generic ways for handling licenses from multiple suppliers:

1. Multiple Machines – each machine runs the FLEX*lm* license manager program lmgrd together with the vendor supplied daemon and vendor supplied license file (see section 3.2 of the end-user guide).
2. One Machine running multiple license servers – here there are multiple copies of lmgrd running, each with its associated vendor daemon and license file (see section 3.3 of the end-user guide).
3. One machine running one license server – here there is only one copy of the lmgrd program running, controlling all vendor daemons and license files (see section 3.4 of the end-user guide).

The following assumes that option 2 is selected, however, for the advantages and disadvantages of each option please refer to the end user guide.

If your system is already using FLEX*lm*, managing PIPENET licenses is simply a case of adding a new service to FLEX*lm*.

Start LMTOOLS and select the **Service/license File** tab:



Make sure that the **Configure using Services** option is selected and observe that there should be one or more services displayed in the window. These services will correspond to services for other products licensed by FLEX*lm*.

Select the **Config Services** tab, enter a suitable service name, for example "PIPENET FLEX*lm* Server". You must now locate and enter the names of three files, this is easily done using the Browse button shown to the right of each field:

Path to lmgrd.exe file and Sunrise vendor daemon sunrise.exe

These files are provided on the second CD and should be copied to your hard drive

Path to the license file

This is the directory containing the Sunrise Systems provided license file (and possibly other license files) or the specific license file. Either enter the directory path if it is known or use the browse button to select the specific file.

Path to debug log file

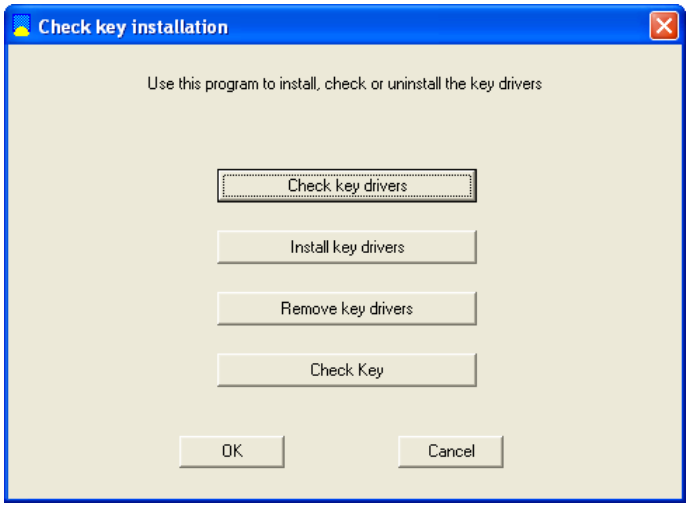
The debug log file is a text file containing status and error information useful for locating problems with the license server. It is only necessary to create an empty text file, using Windows Notepad for example, and save the file in a suitable location on the license server. The license server will then use this file to log any errors. The contents of the file can be viewed by selecting the **View Log** button.

Select the **Service/license File** tab and verify that the new service has been added. Finally select the **Start/Stop/Reread** tab to start the new service.

4 INSTALLING SECURITY KEY DRIVERS

The security key is required to provide an extra level of validation for the licence file. Each licence file will only work with one security key. This has a small disadvantage in that an additional installation step is required, but has the advantage that a customer can switch the licencing to another server simply by moving the licencing file and the security key. Some other licencing schemes will not allow this, the licence file being tied to a specific computer.

The security key drivers must be installed on the FLEX*lm* licence server computer. Installation of the key drivers is achieved by running the program KEYSETUP.EXE which can be found in the directory KeyCheck on either the main installation disk or the second network CD. Running this program produces the display:



Select the **Install key drivers** button to install the key drivers. Selecting the **Check key drivers** button will display the status of the key drivers, which if correctly installed will display the date of installation and other information on version number of driver etc. Selecting the Remove key drivers button will un-install the drivers.

The **Remove key drivers** button will un-install the key drivers and the **Check key** button will display the number and customer name in any fitted key, assuming the key drivers are installed and working.

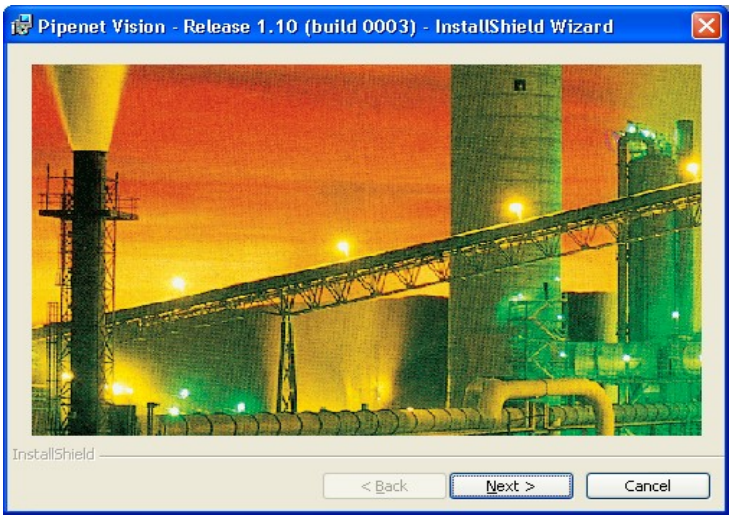
5 WORKSTATION INSTALLATION

This section covers the installation of a PIPENET module on a workstation. This proceeds in two stages

1. installation of the appropriate PIPENET module(s)
2. determination of the network licensing method to be used.

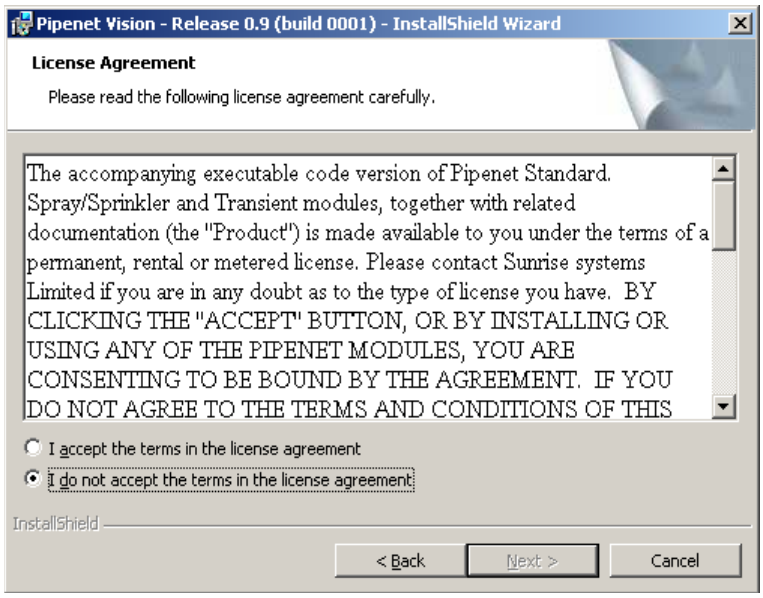
5.1 Installing A PIPENET Module

1. Insert the CD-ROM, a series of messages will be displayed eventually stopping at the following dialog:



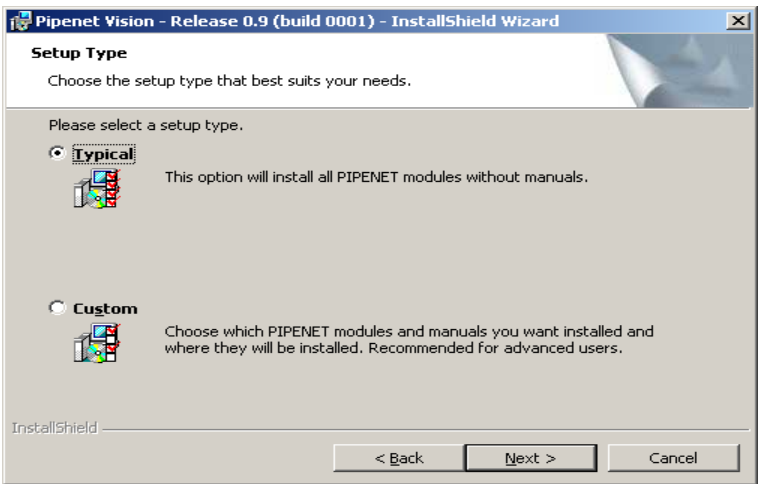
   If the installation does not start, use Windows Explorer navigate to the CD-ROM drive and double click on the SETUP.EXE program.

2. Selecting the **Next** button moves to the next operation and this is the usual operation for most stages of the installation.
3. Eventually you will arrive at the license agreement dialog which appears thus:


Pipenet Vision - Release 0.9 (build 0001) - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
The accompanying executable code version of Pipenet Standard. Spray/Sprinkler and Transient modules, together with related documentation (the "Product") is made available to you under the terms of a permanent, rental or metered license. Please contact Sunrise systems Limited if you are in any doubt as to the type of license you have. BY CLICKING THE "ACCEPT" BUTTON, OR BY INSTALLING OR USING ANY OF THE PIPENET MODULES, YOU ARE CONSENTING TO BE BOUND BY THE AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS
I accept the terms in the license agreement
I do not accept the terms in the license agreement
InstallShield
< Back
Next >
Cancel

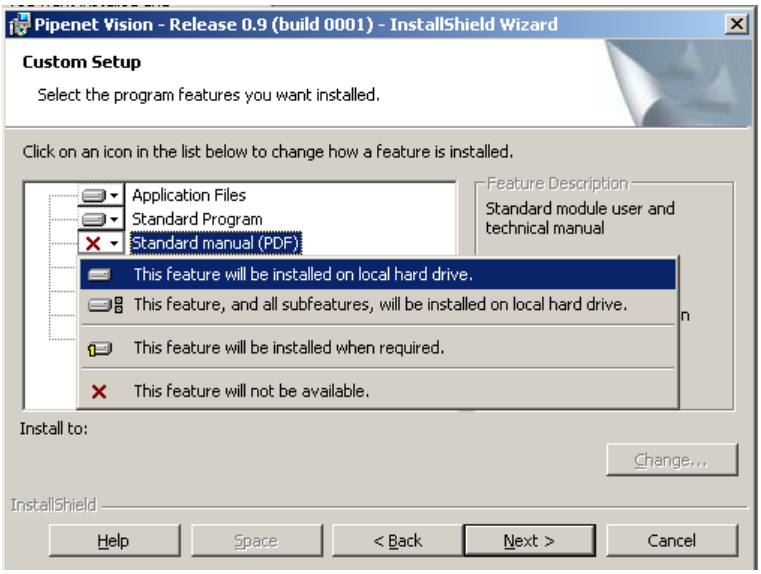
Here you must select the option to accept the license agreement distributed with the software. If you do not accept the terms of the license agreement then select the **Cancel** button.

4. Continue selecting the **Next** button until you arrive at the following dialog:


Pipenet Vision - Release 0.9 (build 0001) - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Typical
This option will install all PIPENET modules without manuals.
Custom
Choose which PIPENET modules and manuals you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

Here you can accept the default Typical installation, which will install the PIPENET Vision versions of Standard and Spray/Sprinker, but without the accompanying manuals. Alternatively, you can select the Custom option followed by the **Next** button to select those modules, manuals, newsletters and case studies to be installed – the primary module options being PIPENET Vision versions of Standard and Spray, and version 5.40 of Transient. Note although you can install all modules you can only run those for which you have a license.

5. If you selected the Custom option you will be presented with the following dialog:


Pipenet Vision - Release 0.9 (build 0001) - InstallShield Wizard
Custom Setup
Select the program features you want installed.
Click on an icon in the list below to change how a feature is installed.
Application Files
Standard Program
Standard manual (PDF)
Feature Description
Standard module user and technical manual
This feature will be installed on local hard drive.
This feature, and all subfeatures, will be installed on local hard drive.
This feature will be installed when required.
This feature will not be available.
Install to:
Change...
InstallShield
Help
Space
< Back
Next >
Cancel

   By default all modules are accepted and no manuals are selected. Selecting an option displays a menu as shown above; select the first item in the menu to include the option in the installation or the last item to exclude an item from the installation. In general it is better to exclude those modules and manuals not required. Remember, even though you can install all modules, you can only run those for which you have a license. Note that all manuals are available in both A4 and US Letter formats.

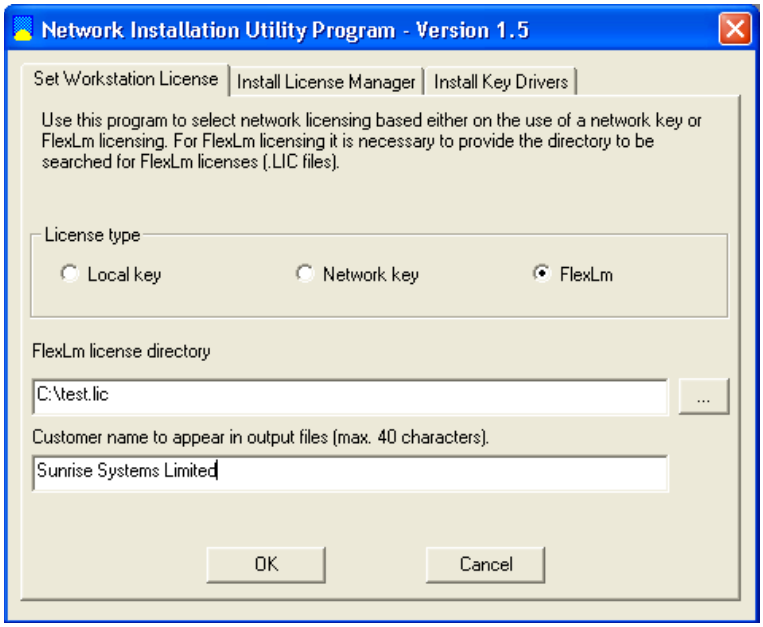
6. Selecting **Next** several times will eventually result in the software being installed on your system, together with the necessary key drivers.
7. When the completed dialog is displayed, select the Finish button to exit the installation.
8. If you have correctly installed the module(s) then make sure that the security key is correctly fitted to the printer port (LPT1) and start the module. At this stage everything should be OK – if not proceed to the trouble-shooting section.
9. If you run the installation process again, without un-installing the program, you will be presented with the option of un-installing the program, modifying the installation by adding or removing modules or options, or repairing the installation by re-installing files.

5.2 Establishing The License Source

When you have finished installing of of the desired modules insert the second CD-ROM, labelled “Network Licensing Support”. On each workstation it is necessary to

run the single utility program NetUtil once. This can be performed at any time, but will usually be done immediately after the installation of the PIPENET module(s).

Running this program produces the display:


Network Installation Utility Program - Version 1.5
Set Workstation License
Install License Manager
Install Key Drivers
Use this program to select network licensing based either on the use of a network key or FlexLm licensing. For FlexLm licensing it is necessary to provide the directory to be searched for FlexLm licenses (.LIC files).
License type
Local key
Network key
FlexLm
FlexLm license directory
C:\test.lic
...
Customer name to appear in output files (max. 40 characters).
Sunrise Systems Limited
OK
Cancel

Select the license type as **FLEX*lm*** and then enter the directory containing the Sunrise provided license file and then select OK.

Note the FLEX*lm* license directory field may not be blank. If the directory specified is incorrect then one of the following will occur when an attempt is made to run a PIPENET module:

1. If there are other FLEX*lm* licensed products on the workstation and the directory where the licenses for these programs is stored is the same as that for PIPENET then the module should run using information contained in the System Registry or:
2. The execution of PIPENET will stop at the point it attempts to obtain the license and you will be prompted to supply the name of either the FLEX*lm* license server or the license directory — this information should be supplied by your IT department.

Note the **Install Key Driver** and **Install license Manager** tabs are not used for FLEX*lm* licensing.

Provide the customer name to appear in printed output files.

6 DIRECTORIES

The installed directory structure is as follows:

CALCS

This directory contains the installed calculators and the HP-GL/2 export program

DATA

This directory contains a number of data files required by the calculator, together with the built-in libraries for each module.

DOCS

This directory contains this installation guide, a copy of the license statement displayed during installation, a copy of the release notes and the optional user manuals in Adobe Acrobat format (in both A4 and US Letter formats). Note the on-line help and the manuals are similar in content, but the manuals are fully indexed and formatted suitable for printing. This directory also contains two sub-directories:

Newsletters – containing the Sunrise Systems newsletters

Case Studies – containing a number of case studies for the various modules.

EXAMPLES

This directory contains one sub-directory for each installed module, each subdirectory containing the examples referenced in the user manuals and online help.

EXEC

This directory contains the main executables and a number of related files.

KEYDRIVER

This directory contains the KEYSETUP utility (see the trouble-shooting section for further details) and the Aladdin key drivers.

UNDERLAYS

This directory contains a number of example .EMF files for including as underlays – see user manual or on-line help for further details.

7 PATCHES TO PIPENET MODULES

Periodically Sunrise will issue *releases* of the latest versions of all of its modules. These releases are issued on CD-ROM, and are issued to existing customers with

MUS agreements, and also to new customers.
In between releases we make available, via our web site, patches which fix minor errors and omissions. *Patch releases* are available to all customers who have the latest CD-ROM release. Each patch generates a new patch release version.

The procedure for obtaining patches is as follows:

1. Log on to the Sunrise website www.sunrise-sys.com. If you have not registered with us please do so via the registration section of the website and you will receive your login details via email.
2. Follow the link to Patches and once you have located the patch that you require from the list, click on Download.
3. A dialog will appear asking whether you would like to run or save this file. Run the .exe file and the patch will install automatically.

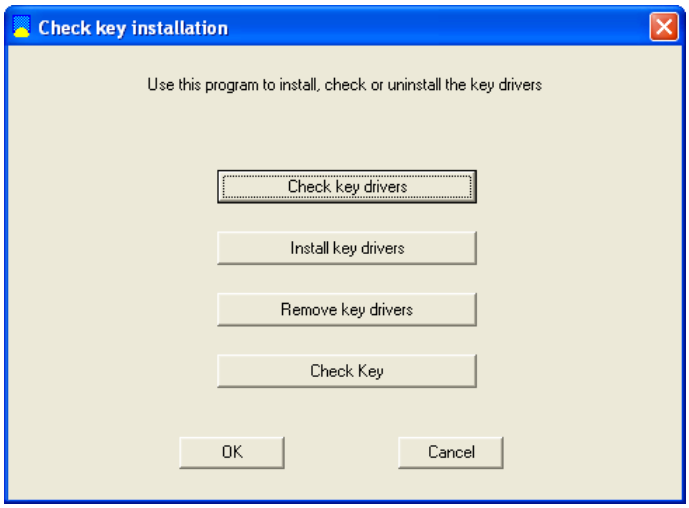
8 TROUBLE-SHOOTING

The most common reasons for failure are not having the correct key fitted or the key drivers were not installed correctly. If the key drivers were not installed then the most likely reason for the failure is that you did not have the necessary access rights during installation.

The following summarises the checks you should perform to locate the source of the problem:

1. Check that you are using a security key appropriate to the module you are trying to run.
2. Check that the key is correctly fitted to the printer port (LPT1) on the computer where you are attempting to run the PIPENET software.
3. You must have Windows' Administrator privileges to install the key drivers since changes are made to the System Registry. If you do not have these rights you will have to contact your IT department to set up your account details. It is recommended that you contact your IT department anyway to confirm any other rights and restrictions there may be.
4. Check that you have read and write access rights to the drive where the software will be installed (by default C:) and where the temporary files will reside (also by default drive C:). This is necessary since some organisations prohibit their users from accessing the local disk and selected network drives, other than for read. Again if you do not have these rights then you will have to contact your IT department.

5. Please check (re-install if necessary) that the software and key drivers are correctly installed on the user's computer.
6. The installation of the key drivers can be checked by running the program KEYSETUP.EXE which can be found in the keydriver sub-directory of the PIPENET installation directory Running this program produces the display:



   Select the Check key drivers button to confirm installation. Entering this command will display the status of the key drivers, which if correctly installed will display the date of installation and other information on printer port, version number of driver etc.
7. If step 6. reports that the key driver is not installed then terminate any running PIPENET module and select the three buttons in the sequence **Remove key drivers, Install key drivers** and **Check key drivers**.
8. The **Remove key drivers** button will un-install the key drivers and the **Check key** button will display the number and customer name in any fitted key, assuming the key drivers are installed and working.

The key check utility is stored on your hard drive during installation in the sub-directory keydriver, the key check utility program is named KeySetup.exe.

9 OBTAINING SUPPORT

Support queries, or details of any problems experienced, should be emailed to support@sunrise-sys.com. If you are experiencing problems with a specific PIPENET network please remember to attach the .DAT file, together with any associated lib-

rary files, to the email. Please include any other information that might help in locating the source of the problem.

For queries relating to installation, in particular security key problems, include the key number; this is located in the bottom right-hand corner of the key label (not the Sunrise address label).

General, non-support queries, should be emailed to pipenet@sunrise-sys.com.

Other contact details are as follows:

Telephone: +44 - 1223 - 441311
Fax: +44 - 1223 - 441297
Mail: Sunrise Systems Limited,
Flint Bridge Business Centre,
Ely Road, Waterbeach,
Cambridge, CB5 9QZ,
United Kingdom